

# Monprene® CP-38125

Thermoplastic Elastomer

Teknor Apex Company

Message:

Monprene CP-38125 is a high performance thermoplastic elastomer designed for a variety of consumer product applications requiring a soft, rubber-like feel. Monprene CP-38125 is a low hardness, low density, clear grade that is suitable for injection molding and extrusion.

General Information	
Features	Low Specific Gravity
	Without Fillers
	Low density
	smoothness
	Workability, good
	Good adhesion
	Medium liquidity
	Good chemical resistance
	Lubrication
	Hardness, low
Uses	Handle
	Washer
	Sporting goods
	Stationery
	Rubber substitution
	Consumer goods application field
	Knob
RoHS Compliance	RoHS compliance
Appearance	Clear/transparent
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.878	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	15	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 second, injection molding	28		ASTM D2240
Shore A, 5 seconds, injection molding	26		ASTM D2240

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>1</sup>			ASTM D412
Transverse flow: 100% strain	0.503	MPa	ASTM D412
Flow: 100% strain	0.565	MPa	ASTM D412
Transverse flow: 300% strain	0.903	MPa	ASTM D412
Flow: 300% strain	1.23	MPa	ASTM D412
Tensile Strength <sup>2</sup>			ASTM D412
Transverse flow: Fracture	7.58	MPa	ASTM D412
Flow: Fracture	7.05	MPa	ASTM D412
Tensile Elongation <sup>3</sup>			ASTM D412
Transverse flow: Fracture	800	%	ASTM D412
Flow: Fracture	840	%	ASTM D412
Tear Strength <sup>4</sup>			ASTM D624
Transverse flow	24.2	kN/m	ASTM D624
Flow	20.0	kN/m	ASTM D624
Compression Set <sup>5</sup> (23°C, 22 hr)	21	%	ASTM D395B

#### Legal statement

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Injection	Nominal Value	Unit
Rear Temperature	171 - 204	°C
Middle Temperature	171 - 204	°C
Front Temperature	171 - 204	°C
Nozzle Temperature	171 - 204	°C
Processing (Melt) Temp	171 - 204	°C
Mold Temperature	16 - 32	°C
Injection Pressure	1.38 - 5.52	MPa
Injection Rate	Fast	
Back Pressure	0.172 - 0.689	MPa
Screw Speed	50 - 100	rpm
Cushion	3.81 - 25.4	mm

#### Injection instructions

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	160 - 193	°C
Cylinder Zone 2 Temp.	160 - 193	°C
Cylinder Zone 3 Temp.	160 - 193	°C
Cylinder Zone 4 Temp.	160 - 193	°C

Cylinder Zone 5 Temp.	160 - 193	°C
Die Temperature	160 - 193	°C
Extrusion instructions		
Screw Speed: 30 to 100 rpm		
NOTE		
1.	C mold, 510mm/min	
2.	C mold, 510mm/min	
3.	C mold, 510mm/min	
4.	C mold, 510mm/min	
5.	Type 1	

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#### Recommended distributors for this material

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